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REMOTE MONITORING SYSTEM  
FOR A MOBILE STORAGE TANK

Abstract

A remote monitoring system for a mobile storage tank having a product container in which a remote telemetry unit gathers liquid level and head space pressure data and global position data. The remote telemetry unit effects a wireless transmission of a standard message structure containing the pressure and level data and the global position data. In addition, in case of a storage tank having a thermal shield fluid, pressure and level data for the shield fluid itself may also be in the standard data record as well as acceleration data from an accelerometer to indicate tank damage. If upset conditions of pressure and liquid level are reached in the thermal shield and/or product container, vapor may be vented in accordance with preset programming in order to attempt to reestablish liquid level and vapor pressure above set points.